

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1310703

Luminaire Tested: LDSQA3D20R459035D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R459035D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

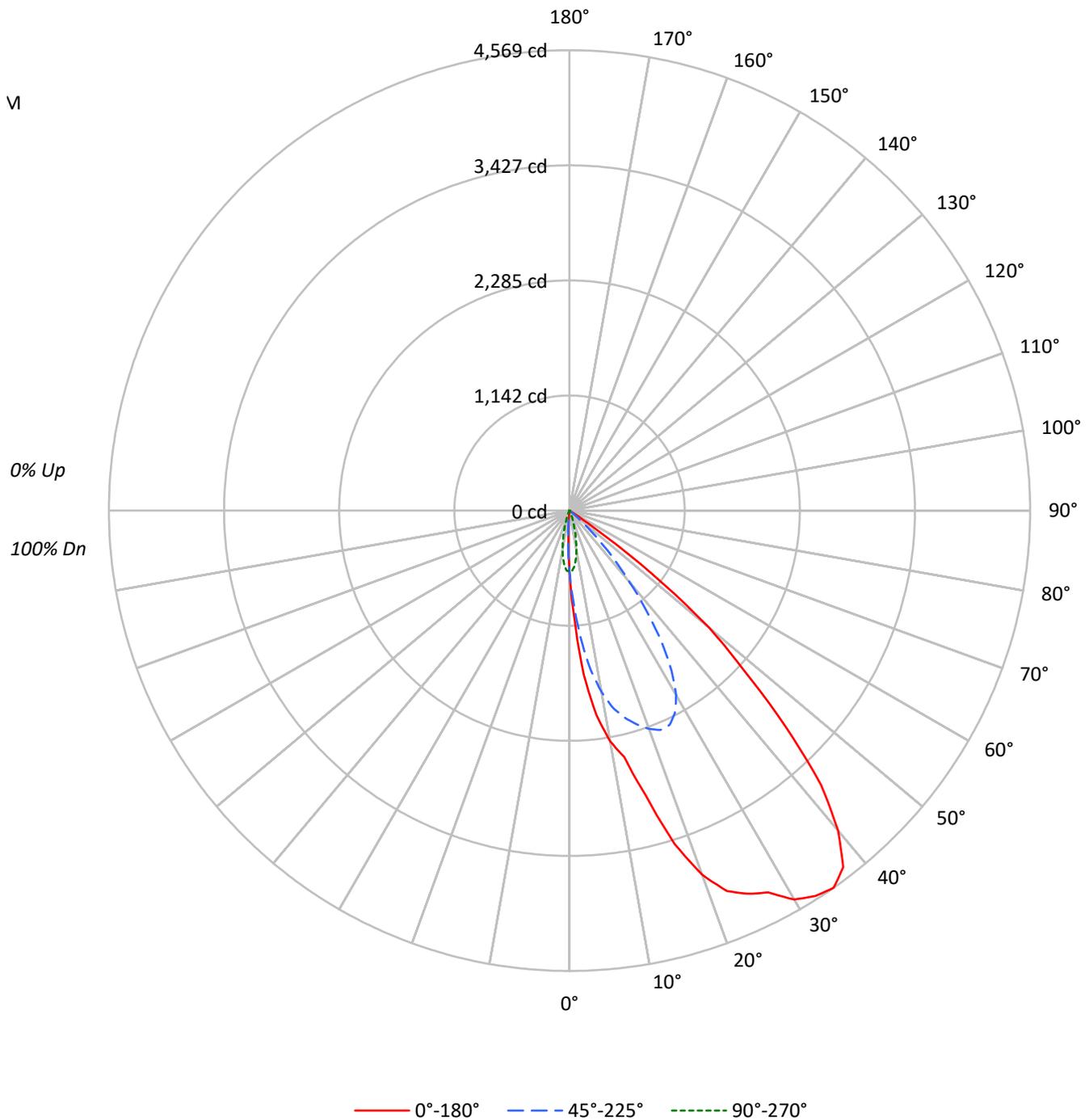
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1937.0 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1310703  
CATALOG NUMBER: LDSQA3D20R459035D010 3LSQCA30R 1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P1310703

CATALOG NUMBER: LDSQA3D20R459035D010 3LSQCA30R 1MMS

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67				67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49				49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	103609	103609	103609	103609	103609
5°	282850	217622	95880	19242	7209
10°	406227	319260	69322	1819	1521
15°	522966	379757	36890	624	0
20°	704859	422542	14021	0	0
25°	797238	446354	3630	0	0
30°	886185	420800	338	0	0
35°	960652	335572	0	0	0
40°	931095	210679	0	0	0
45°	738107	100371	0	0	0
50°	483079	12566	0	0	0
55°	82992	0	0	0	0
60°	0	0	586	0	0
65°	0	693	693	0	0
70°	0	856	1762	0	0
75°	0	1131	2329	0	0
80°	0	1686	3471	1686	0
85°	0	3359	6916	3359	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 738107 cd/sqm



TEST NUMBER: P1310703

CATALOG NUMBER: LDSQA3D20R459035D010 3LSQCA30R 1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	3.7
10°-20°	276.0	14.2
20°-30°	516.6	26.7
30°-40°	603.0	31.1
40°-50°	393.2	20.3
50°-60°	73.0	3.8
60°-70°	0.7	0.0
70°-80°	1.4	0.1
80°-90°	1.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	864.1	44.6
0°-40°	1467.1	75.7
0°-60°	1933.3	99.8
0°-90°	1937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	602	602	602	602	602	
5°	1636	1259	555	111	42	175
15°	2933	2130	207	4	0	874
25°	4195	2349	19	0	0	1940
35°	4569	1596	0	0	0	2803
45°	3030	412	0	0	0	2304
55°	276	0	0	0	0	480
65°	0	2	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	2	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P1310703

CATALOG NUMBER: LDSQA3D20R459035D010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6
2.5°	1060.6	1069.3	1051.9	1044.9	1022.3	1027.6	989.3	973.7	949.3	909.3	890.2
5°	1636.1	1620.4	1606.5	1577.0	1559.6	1512.6	1460.5	1401.4	1330.1	1258.8	1177.1
7.5°	2046.4	2034.2	2029.0	2004.7	1969.9	1921.2	1853.4	1778.7	1686.5	1590.9	1467.4
10°	2322.9	2310.7	2289.8	2265.5	2237.7	2197.7	2131.6	2049.9	1949.1	1825.6	1681.3
12.5°	2503.7	2501.9	2467.2	2439.4	2404.6	2369.8	2302.0	2235.9	2136.8	2009.9	1846.5
15°	2933.1	2905.3	2860.1	2781.9	2684.5	2594.1	2484.6	2380.2	2272.4	2129.9	1947.3
17.5°	3468.7	3437.4	3360.9	3261.7	3105.3	2933.1	2745.4	2580.2	2418.5	2225.5	2009.9
20°	3845.9	3833.8	3769.4	3654.7	3487.8	3260.0	3013.1	2780.1	2552.4	2305.5	2039.5
22.5°	4087.6	4080.7	4054.6	3976.3	3806.0	3550.4	3232.2	2919.2	2644.5	2355.9	2030.8
25°	4195.4	4204.1	4207.6	4169.3	4032.0	3771.2	3393.9	3025.3	2696.7	2348.9	1964.7
27.5°	4271.9	4271.9	4285.8	4268.4	4129.3	3854.6	3456.5	3061.8	2679.3	2263.8	1825.6
30°	4456.2	4452.7	4461.4	4414.5	4221.5	3880.7	3428.7	3002.7	2580.2	2116.0	1625.7
32.5°	4536.2	4539.7	4537.9	4463.2	4238.9	3863.3	3360.9	2889.7	2397.6	1884.7	1361.4
35°	4569.2	4553.6	4489.3	4318.9	4035.5	3632.1	3169.6	2698.4	2142.0	1596.1	1074.5
37.5°	4459.7	4414.5	4271.9	4038.9	3692.9	3305.2	2853.2	2355.9	1803.0	1251.8	808.5
40°	4141.5	4082.4	3903.3	3621.7	3305.2	2955.7	2479.3	1954.3	1410.1	937.1	566.8
42.5°	3691.2	3623.4	3430.4	3185.2	2896.6	2529.8	2055.1	1530.0	1032.8	646.8	359.9
45°	3030.5	2992.3	2881.0	2674.1	2390.7	2009.9	1575.2	1116.2	714.6	412.1	184.3
47.5°	2343.7	2295.0	2215.1	2072.5	1836.0	1474.4	1102.3	758.1	459.0	203.4	38.3
50°	1803.0	1745.6	1648.3	1490.0	1243.2	984.1	714.6	472.9	233.0	46.9	1.7
52.5°	1038.0	1050.2	1003.2	902.4	765.0	589.4	413.8	238.2	52.2	1.7	0.0
55°	276.4	299.1	292.1	314.7	276.4	233.0	172.1	45.2	3.5	0.0	0.0
57.5°	0.0	0.0	1.7	3.5	10.4	15.6	5.2	1.7	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1310703

CATALOG NUMBER: LDSQA3D20R459035D010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6
2.5°	846.7	810.2	765.0	598.1	450.3	323.4	252.1	233.0
5°	1098.8	1010.2	895.4	554.6	278.2	111.3	50.4	41.7
7.5°	1337.0	1206.6	999.7	485.1	140.8	27.8	13.9	12.2
10°	1521.3	1345.7	1076.2	396.4	52.2	10.4	8.7	8.7
12.5°	1648.3	1434.4	1104.1	300.8	19.1	5.2	5.2	3.5
15°	1721.3	1469.2	1078.0	206.9	7.0	3.5	0.0	0.0
17.5°	1743.9	1455.3	1008.4	130.4	1.7	0.0	0.0	0.0
20°	1724.8	1387.5	898.9	76.5	0.0	0.0	0.0	0.0
22.5°	1662.2	1281.4	766.8	41.7	0.0	0.0	0.0	0.0
25°	1545.7	1131.9	612.0	19.1	0.0	0.0	0.0	0.0
27.5°	1356.2	938.9	460.7	7.0	0.0	0.0	0.0	0.0
30°	1140.6	732.0	326.9	1.7	0.0	0.0	0.0	0.0
32.5°	890.2	539.0	210.4	0.0	0.0	0.0	0.0	0.0
35°	669.4	377.3	125.2	0.0	0.0	0.0	0.0	0.0
37.5°	466.0	238.2	66.1	0.0	0.0	0.0	0.0	0.0
40°	290.4	128.7	22.6	0.0	0.0	0.0	0.0	0.0
42.5°	161.7	45.2	1.7	0.0	0.0	0.0	0.0	0.0
45°	38.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0
60°	0.0	1.7	1.7	1.7	0.0	0.0	0.0	0.0
62.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
65°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
67.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
70°	1.7	1.7	1.7	3.5	1.7	0.0	0.0	0.0
72.5°	1.7	1.7	3.5	3.5	1.7	0.0	0.0	0.0
75°	1.7	1.7	3.5	3.5	1.7	0.0	0.0	0.0
77.5°	1.7	3.5	3.5	3.5	1.7	1.7	0.0	0.0
80°	1.7	3.5	3.5	3.5	3.5	1.7	0.0	0.0
82.5°	1.7	3.5	3.5	3.5	3.5	1.7	0.0	0.0
85°	1.7	3.5	3.5	3.5	1.7	1.7	0.0	0.0
87.5°	1.7	3.5	3.5	3.5	3.5	1.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)